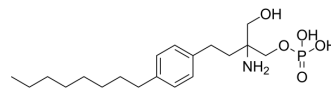


## Fingolimod phosphate

Cat. No.:	HY-15381
CAS No.:	402615-91-2
Molecular Formula:	C <sub>19</sub> H <sub>34</sub> NO <sub>5</sub> P
Molecular Weight:	387.45
Target:	LPL Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (258.10 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.5810 mL	12.9049 mL	25.8098 mL
				5 mM	0.5162 mL	2.5810 mL	5.1620 mL
				10 mM	0.2581 mL	1.2905 mL	2.5810 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Fingolimod phosphate (FTY720 phosphate) is an orally active sphingosine 1-phosphate (S1P) receptor agonist. Fingolimod phosphate can promote the neuroprotective effects of microglia. Fingolimod phosphate can be used for the research of multiple sclerosis and neurologic diseases <sup>[1]</sup> .
In Vitro	<p>Fingolimod phosphate prevents lymphocytes from moving out of the lymphoid organs and inhibits autoreactive lymphocytes from infiltrating the central nervous system<sup>[1]</sup>.</p> <p>Fingolimod phosphate (0, 1, 10, 100 nM) binds S1P1 receptors to downregulate activated microglial production of such pro-inflammatory cytokines as tumor necrosis factor-<math>\alpha</math>, interleukin-1<math>\beta</math>, and interleukin-6<sup>[1]</sup>.</p> <p>Fingolimod phosphate (0, 1, 10, 100 nM) also upregulates microglial production of brain-derived neurotrophic factor and glial cell-derived neurotrophic factor<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## REFERENCES

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[1]. Hiromi Noda, et al. Fingolimod phosphate promotes the neuroprotective effects of microglia. J Neuroimmunol. 2013 Mar 15;256(1-2):13-8.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA